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## RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/10/086,105A

TIME: 11:59:26

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\05012002\J086105A.raw

```

3 <110> APPLICANT: Kevin J. Kayser
4      John J. Kilbane, II
6 <120> TITLE OF INVENTION: System and Method for Gene Expression in Thermus Strains
8 <130> FILE REFERENCE: IGT-1444
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/086,105A
C--> 12 <141> CURRENT FILING DATE: 2002-02-28
14 <160> NUMBER OF SEQ ID NOS: 5
16 <170> SOFTWARE: WordPerfect 9.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 48
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: terminator located either 3' or 5' to proximal end
25      of gene of interest
27 <400> SEQUENCE: 1
28  ggccggggcc  ccgcccttt  ggcggggcc  tcccccaag  gagggccg          48
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 51
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: 5' UTR added to five prime of transcript
38 <400> SEQUENCE: 2
39  gcatgcttat  ctcgagactg  gcagttcaat  agagatattg  tatgcctgca  g          51
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 7
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: RBS addition to expression vector
49 <400> SEQUENCE: 3
50  aaaggga          7
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 8
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: RBS addition to expression vector
60 <400> SEQUENCE: 4
61  gaaggagg          8
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 772

```

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65 &lt;212&gt; TYPE: DNA

66 &lt;213&gt; ORGANISM: Artificial Sequence

68 &lt;220&gt; FEATURE:

69 &lt;223&gt; OTHER INFORMATION: Inducible promoter mdh

71 &lt;400&gt; SEQUENCE: 5

72	ggaggaggcc aagaagcttt tggaggggaa gcccgctctac atgtacccca cgtccattga	60
74	ggcggccaag gccatcgtgg ccatggtggg aggtgcggcg tgatcctggt gaaccgcgag	120
76	accgcgcgtcc tgggtccagg catcaccggc cgggaggggc agttccacac caagcagatg	180
78	ctggactacg gcaccaagat cgtcgccggg gtcaccccg gcaaaggggg aacggaggtc	240
80	ctaggggtcc cgtctacga cacggtgaag gaggcggtgg cgcaccacga ggtggacgcc	300
82	tccatcatct tcgtgcccgc cccggccgcg gcggacgccg ccctggaagc ggcccacgcc	360
84	gggatecccc tcatcgteet catcaccgag ggcacccca ccctggacat ggtgcgggcg	420
86	gtggaggaga tcaaggccct gggaagccgc ctcatcgggg ggaactgcc gggtatcatc	480
88	agcgcgcgagg agaccaagat cgggatcatg cccggccacg tcttcaagcg gggccgggtg	540
90	gggatcatca gccgctccgg caccctcacc tacgagccg cagccgccct ttcccaggcg	600
92	gggctcgga ccaccaccac ggtggggatc gggggcgacc ccgtcatcgg caccaccttc	660
94	aaggacctcc tccccctctt caacgaggac ccggagacgg aggccgtggt cctcatcggg	720
96	gagatcggcg gctccgacga ggaggaggcg gcggcttggt tgaaggacca ca	772

## VERIFICATION SUMMARY

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Input Set : A:\SequenceListing.txt

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date